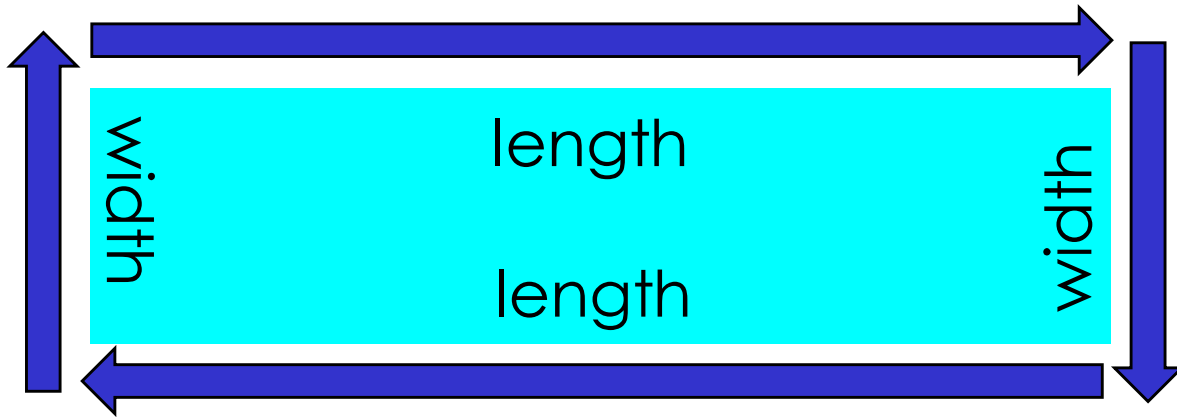


PERIMETER

Distance around a polygon

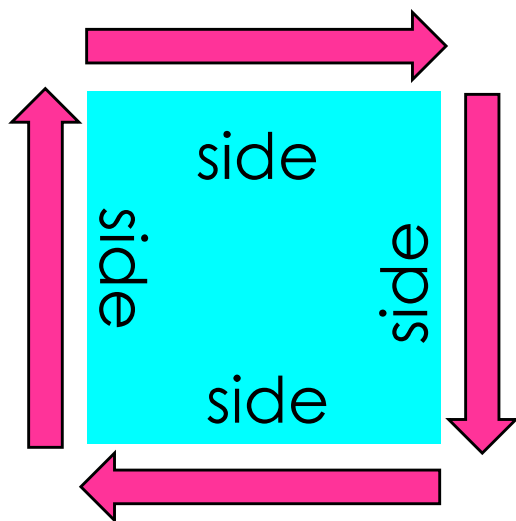


Rectangle

$$P = l + l + w + w$$

or

$$P = 2l + 2w$$



Square

$$P = s + s + s + s$$

or

$$P = 4s$$

AREA

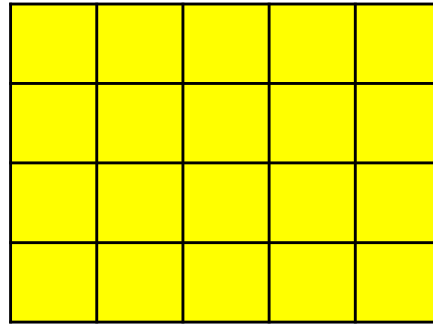
2-D Space inside a polygon

Rectangle

$$A = l \times w$$

5cm x 4cm

20 square cm

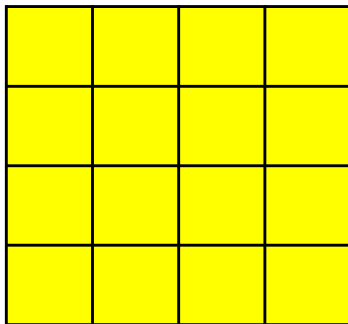


width
4 cm

length 5 cm

Square

side = 4 cm



$$A = s \times s$$

4cm x 4cm

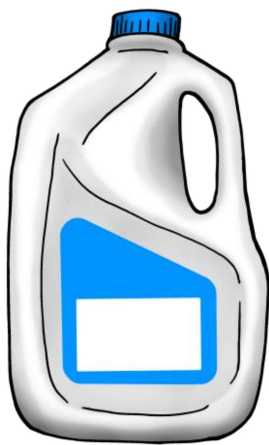
16 square cm

CAPACITY

Measurement of liquid volume

Customary

Metric



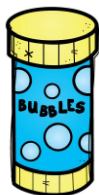
gallon
gal



quart
qt



liter
l



fluid
ounces
fl oz



cup
c



pint
pt

milliliter
ml



CUSTOMARY LENGTH

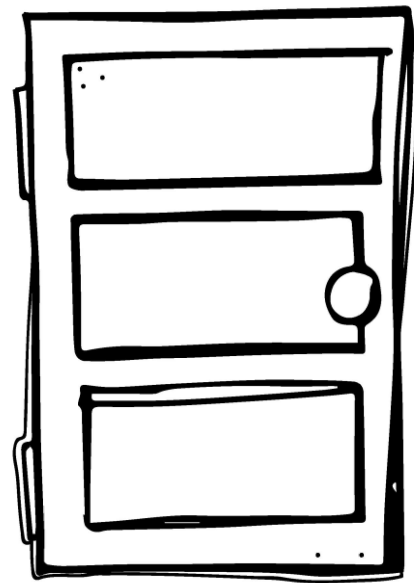
Measurement of distance

Approximations



mile
mi

a distance you
drive



yard
yd

from the floor to the
door knob



a floor tile



inch
in

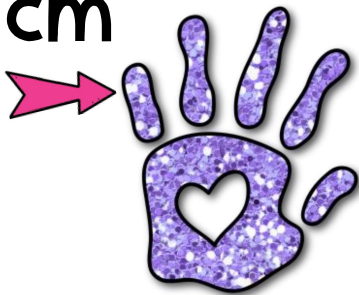
METRIC LENGTH

Measurement of distance
Approximations

centimeter

cm

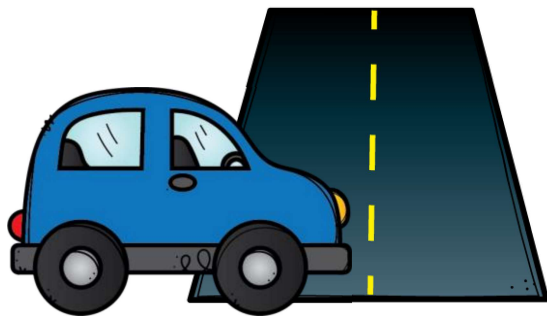
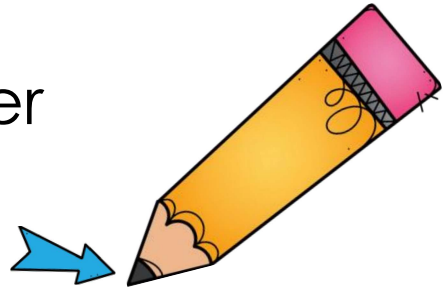
width of
your
pinky



millimeter

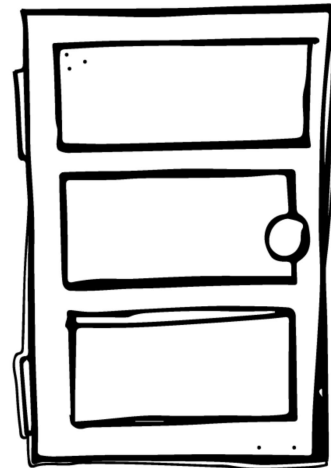
mm

pencil
point



a distance
you drive
that is shorter
than a mile

kilometer
km

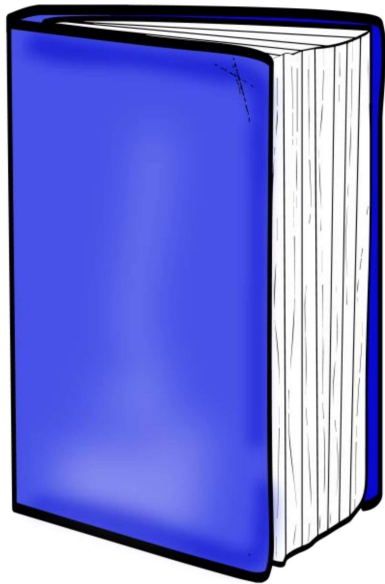


meter **m**

A little farther than
the doorknob

MASS

Approximations



kilogram
k₉

large
dictionary

milligram **m₉**



∴

one grain of salt

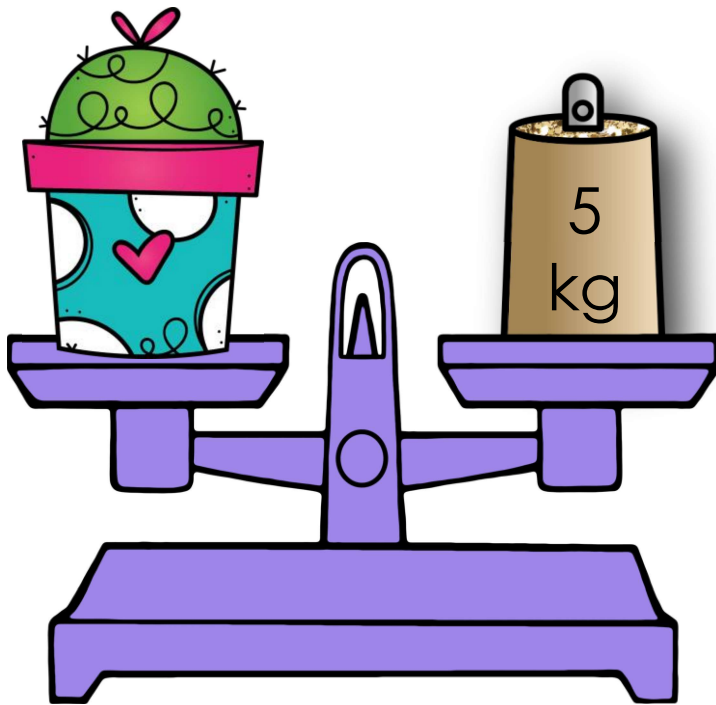


gram **g**

one
paperclip

MASS

Amount of matter something contains



Measure
mass in:

milligrams

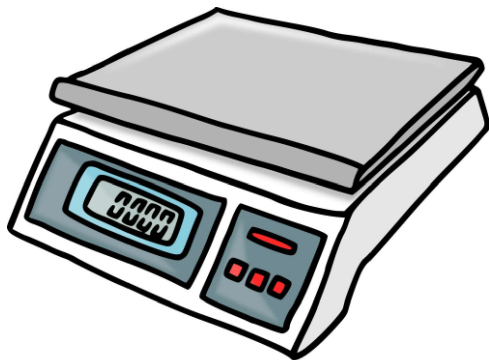
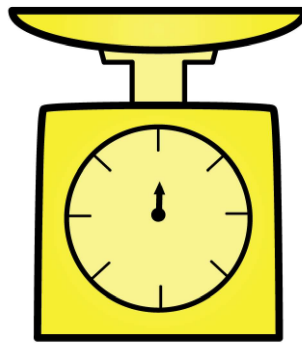
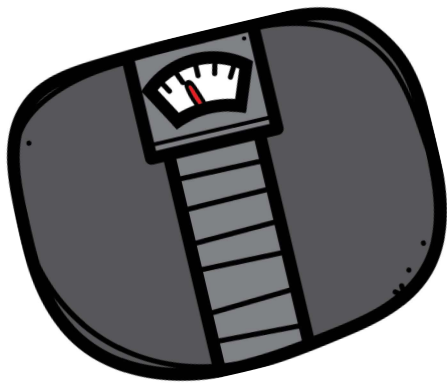
grams

kilograms

Use a balance to measure mass.

WEIGHT

The measure of gravitational pull on an object



Measure weight in:

ounces

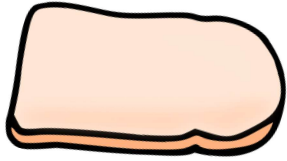
pounds

tons

Use a scale to measure to weight.

WEIGHT

Approximations



slice of bread

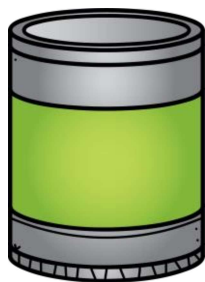
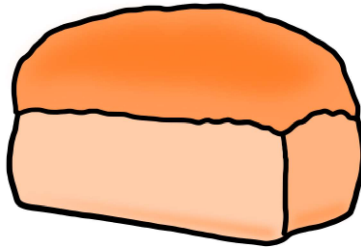
ounce
oz



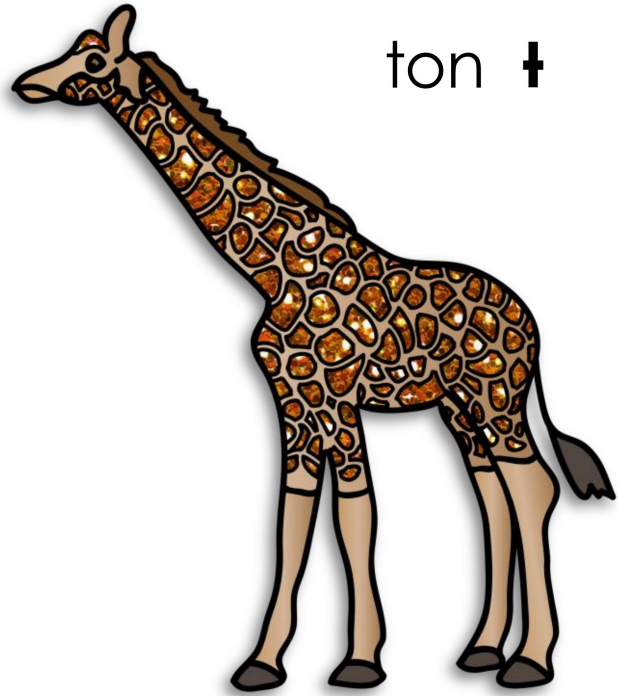
key

pound
lb

loaf of bread



can of
beans



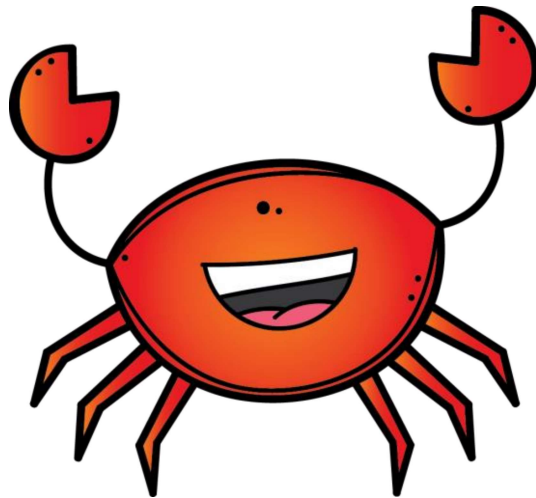
ton **†**

giraffe

CONVERSION

Replace a measurement of an object with an equal measurement using a different unit.

This crab weighs 5 lbs. How many ounces is that equal to?



1	x 16	= 16
5	x 16	= 80

5 lbs. is equal to
80 oz.